

Solving for $\int e^{0.4x} \cos 2x \, dx$, we have

$$\int e^{0.4x} \cos 2x \, dx = \frac{5 e^{0.4x} \cos 2x + 25 e^{0.4x} \sin 2x}{52}.$$

To obtain the general solution, we multiply this integral by 3, add the constant of integration, and solve for v . We obtain the general solution

$$v(x) = k e^{-0.4x} + \frac{15}{52} \cos 2x + \frac{75}{52} \sin 2x.$$

(b) The solution of the associated homogeneous equation is

$$v_h(x) = e^{-0.4x}.$$

We guess

$$v_p(x) = \alpha \cos 2x + \beta \sin 2x$$

for the a solution to the nonhomogeneous equation and solve for α and β . Substituting this guess into the differential equation, we obtain

$$-2\alpha \sin 2x + 2\beta \cos 2x + 0.4\alpha \cos 2x + 0.4\beta \sin 2x = 3 \cos 2x.$$

Collecting sine and cosine terms, we get the system of equations

$$\begin{cases} -2\alpha + 0.4\beta = 0 \\ 0.4\alpha + 2\beta = 3. \end{cases}$$

Using the fact that $0.4 = 2/5$, we solve this system of equations and obtain

$$\alpha = \frac{15}{52} \quad \text{and} \quad \beta = \frac{75}{52}.$$

The general solution of the original nonhomogeneous equation is

$$v(x) = k e^{-0.4x} + \frac{15}{52} \cos 2x + \frac{75}{52} \sin 2x.$$

Both methods require quite a bit of computation. If we use an integrating factor, we must do a complicated integral, and if we use the guessing technique, we have to be careful with our algebra.

22. (a) Note that

$$\frac{d\mu}{dt} = \mu(t)(-a(t))$$

by the Fundamental Theorem of Calculus. Therefore, if we rewrite the differential equation as

$$\frac{dy}{dt} - a(t)y = b(t)$$

and multiply the left-hand side of this equation by $\mu(t)$, the left-hand side becomes

$$\begin{aligned} \mu(t) \frac{dy}{dt} - \mu(t)a(t)y &= \mu(t) \frac{dy}{dt} + \frac{d\mu}{dt}y \\ &= \frac{d(\mu y)}{dt}. \end{aligned}$$

Consequently, the function $\mu(t)$ satisfies the requirements of an integrating factor.

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